

CLAIM AMENDMENTS

3211-01

What is claimed is:

1. *(Currently Amended)* A fuel composition, comprising:
  - (a) a diesel fuel;
  - (b) ethanol; and
  - (c) a surfactant comprising
    - (1) a hydrocarbylphenol or derivative thereof that is a Mannich base or an alkoxyated Mannich base;
    - (2) a reaction product of a hydrocarbyl-substituted polycarboxylic acid or anhydride and an alcohol, an amine, an amino alcohol, an epoxide, or a mixture thereof; or
    - (3) a mixture thereof

wherein the hydrocarbyl substituent of components (c)(1) and (c)(2) contains 4 to 20 carbon atoms; the ethanol comprises anhydrous ethanol containing up to about 0.1% by weight water, fuel grade ethanol containing up to 0.1% by weight water, or mixtures thereof; the diesel fuel is present at 50 to 99% by weight; the ethanol is present at 0.5 to 25% by weight; and the surfactant is present at 0.1 to 8% by weight and has a HLB value ranging from -30 to 20.

~~wherein the fuel composition contains up to 0.3% by weight water.~~

2. *(Original)* The fuel composition of claim 1 wherein the surfactant (c) further comprises at least one member selected from the group consisting of an alcohol, an alkoxyated alcohol, a fatty monocarboxylic acid or derivative thereof, and an alkoxyated hydrocarbylphenol.
3. *(Original)* The fuel composition of claim 2 wherein the diesel fuel contains aromatic hydrocarbons from 3 to 60% by volume, and the HLB value of the surfactant is directly proportional to the aromatic content of the diesel fuel.
4. *(Original)* The fuel composition of claim 2 wherein the derivative of the fatty monocarboxylic acid is an ester, an amide, an amine salt, a hydroxyalkyl-substituted amide, an aminoalkyl-substituted ester, an alkoxyated acid, or a mixture thereof.

5.     *(Original)* The fuel composition of claim 2, further comprising:  
          (d) a combustion improver.
6.     *(Original)* The fuel composition of claim 5 wherein the combustion improver comprises an inorganic nitrate salt, a hydroxylamine compound, an organic nitro compound, a compound having at least one strained ring group containing 3 to 5 ring atoms, or a mixture thereof.
7.     *(Original)* The fuel composition of claim 1 wherein the surfactant comprises the Mannich base, the alkoxyated Mannich base, or a mixture thereof.
8.     *(Original)* The fuel composition of claim 7 wherein the Mannich base is prepared by the Mannich reaction of a hydrocarbylphenol, an aldehyde, and an amine.
9.     *(Original)* The fuel composition of claim 8 wherein the Mannich base is the reaction product of dodecylphenol, formaldehyde, and diethanolamine.
10.    *(Original)* The fuel composition of claim 1 wherein component (c)(2) is the reaction product of an alkenylsuccinic anhydride and a tertiary amino alcohol.
11.    *(Original)* The fuel composition of claim 1 wherein the diesel fuel comprises a middle distillate fuel, a Fischer-Tropsch fuel, a biodiesel fuel, or mixtures thereof.
12.    *(Original)* The fuel composition of claim 5 wherein the diesel fuel is present at 55 to 99% by weight, the surfactant is present at 0.3 to 7% by weight, and the combustion improver is present at 0.005 to 10% by weight.
13.    *(Original)* A method of operating a compression-ignited internal combustion engine, comprising:  
          fueling the engine with the fuel composition of claim 1.
14.    *(Original)* The method of claim 13 wherein the surfactant (c) further comprises at least one member selected from the group consisting of an alcohol, an alkoxyated alcohol, a fatty monocarboxylic acid or derivative thereof, and an alkoxyated hydrocarbylphenol.
15.    *(Previously Presented)* The method of claim 13 wherein the fuel composition further comprises (d) a combustion improver.

16. *(Previously Presented)* A method of fueling a compression-ignited internal combustion engine, comprising:

fueling the engine with the fuel composition of claim 1.

17. *(Original)* The method of claim 16 wherein the fuel composition further comprises (d) a combustion improver.